Ser. No.: 10/562376 Response 09Oct2009 Atty Docket 117163.00158

REMARKS

Claims 1, 2, 4, and 5 were pending at the time of the electronic mailing of the

outstanding Office Action. By this amendment, claim 1 has been amended to recite the

presence of first and second polymer carriers, which have differing degradation properties.

Support for this amendment and for new claim 15 may be found in the specification in

paragraphs 0054 and 0055 and in Figure 3a. New claims 16 and 17 have also been added.

Claim 16 recites a stent having a coating system with first and a second pharmaceutically

active substances, and where a concentration of the first pharmaceutically active substance is

greater adjacent the face surfaces than in a middle portion of the stent, and the concentration of

the second pharmaceutically active substance is greater in a middle portion of the stent than

adjacent the face surfaces. Support for new claims 16 and 17 may be found in the specification

in paragraph 0057, Figure 4 and original claim 2. Claim 5 has been cancelled without prejudice

or disclaimer as to the subject matter contained therein.

In the Office Action of 9 July 2009, claims 1 and 2 were rejected under 35 U.S.C. §

103(a), as being unpatentable over U.S. Patent No. 7,169,178 to Santos et al. (hereinafter

"Santos") in view of U.S. Patent No. 5.464,450 to Buscemi, Under 35 U.S.C. § 103(a), claims

4-5 were also rejected as being obvious over Santos in view of U.S. Pat. No. 5,972,027 to

Johnson (hereinafter "Johnson").

In the Office Action, Santos is cited as providing a stent comprising a basic tubular

body with a coating system comprising a polymer carrier and a pharmaceutically active

substance, wherein a concentration of the pharmaceutically active substance varies in the

Akr - 215198.1 4

Atty Docket 117163.00158

longitudinal direction of the stent. Santos is also indicated to teach a biodegradable coating

material. It was alleged that the use of the degradation characteristics of the polymer to

differentiate local elution characteristics would have been inherent in the disclosure of Santos,

or that such a use would have been obvious to one of ordinary skill in the art at the time of the

invention. Buscemi was alleged to teach the use of degradable stent materials, where the drugs

are released as the material degrades at rates controlled by the rate of degradation.

As indicated above, claim 1 has been amended to recite the presence of first and second

polymer carriers, which have differing degradation properties and those differences influence

the elution characteristics at different positions on the stent. The Applicants maintain that

neither Santos nor Buscemi teach or suggest such a stent. Santos provides a stent having a

coating which carries a drug in which the concentration of the drug increases from one end to

the other (column 2, lines 58-67), a stent in which the drug concentration varies

circumferentially to specifically treat one side of a lumen with a greater concentration of drug

(column 3, lines 1-3 and column 4, lines 43-50), and a stent in which a drug concentration is

greater in a curved section of a stent than in a linear segment of a stent (column 3, lines 5-11).

Additionally, Santos devotes entire sections of the disclosure to "Methods of Varying

Drug Concentration" (column 5, line 45 - Column 7 line 45) and "Methods of Varying the

Release Rate" (column 7, line 48 - column 8, line 56). Clearly, Santos devotes significant

consideration to the delivery of differing amounts of a drug in different portions of a stent,

specifically mentioning varying the thickness of the polymeric coating, or including a diffusion

Akr - 215198.1 5

Atty Docket 117163.00158

barrier layer. Santos discloses only the adjustment of diffusion rates, not degradation rates, to

regulate the release of a drug from a stent (column 8, lines 43-57).

Because Santos does not teach or suggest the use of polymers with differing

degradation rates to adjust the rate of drug delivery as recited in claim 1, the Applicants

maintain that claims 1 and 2 (as well as 4 and 15, which depend from claim 1) patentably

distinguish over Santos in view of Buscemi. Withdrawal of the rejection of claims 1 and 2

under 35 U.S.C. § 103(a) is respectfully requested.

Claims 4-5 were rejected under 35 U.S.C. § 103(a) as being obvious over Santos in

view of Johnson. Claim 5 has been cancelled without prejudice and new claims 16 and 17 have

been added. Claim 16 recites a stent having a coating system with first and a second

pharmaceutically active substances, where the concentration of the first pharmaceutically

active substance is greater adjacent the face surfaces than in a middle portion of the stent, and

the concentration of the second pharmaceutically active substance is greater in a middle

portion of the stent than adjacent the face surfaces.

In response to the Applicants' previous argument that combining Johnson with Santos

would impermissibly change a principle of operation of Johnson, it was stated that the test for

obviousness is what the combined teachings of the references would have suggested to those of

ordinary skill in the art, not whether the features of the secondary reference may be

incorporated into the structure of the primary reference. However, the Applicants maintain that

combining the teachings of the cited references and simultaneously changing a principle of

Akr - 215198.1 6

Atty Docket 117163.00158

operation of one of those references to attempt to establish obviousness indicates that the

proposed combination is nonobvious. Stated differently, needing to change a principle of

operation when making such a combination to arrive at the claimed invention would tend to

indicate that the combined teachings would not have suggested the present invention to one of

ordinary skill in the art.

It should also be remembered that to establish a prima facie case of obviousness, there

must be some suggestion or motivation, either in the references themselves or in the

knowledge generally available to one of ordinary skill in the art, to modify the reference or to

combine the reference teachings. There must also be a reasonable expectation of success and

the prior art reference or references must teach or suggest all of the claim limitations. (MPEP §

2143.) Combining references that also require a change in a principle of operation of one of the

references indicates that the references do not teach or suggest all the limitations of the claims,

as required. As indicated previously, Johnson provides different concentrations of a drug in

different areas of the stent based on the porosity of the stent material itself, not on the

degradation behavior of a polymer. Johnson provides no indication that degradation plays any

role in the release of a therapeutic agent. Therefore, claim 4 and new claims 15-17 patentably

distinguishes over Santos and Johnson. Withdrawal of the rejection of claim 4 under 35 U.S.C.

§ 103(a) is respectfully requested.

In light of the arguments provided above, the Applicants maintain that the pending

claims distinguish over the cited prior art. The issuance of a Notice of Allowance is

respectfully requested.

Akr - 215198.1 7

Atty Docket 117163.00158

The outstanding Office action was transmitted on 9 July 2009. The Examiner set a

shortened statutory period for reply of 3 months from the mailing date. Therefore, no petition

for an extension of time is believed to be required with the filing of this response.

Nevertheless, the Applicants hereby make a conditional petition for an extension of time for

response in the event that such a petition is required. No fees are believed to be due with this

response. However, in the event that a fee for the filing of his response is insufficient, the

Commissioner is authorized to charge any fee deficiency or to credit any overpayment to

8

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Respectfully submitted,

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Akr - 215198.1